

Installation Guide

hp StorageWorks NAS 2000s

Product Version: 1.0

First Edition (September 2003)

Part Number: 345649-001

This installation guide provides information about how to deploy the HP StorageWorks NAS 2000s.



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NAS 2000s Installation Guide
First Edition (September 2003)
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About This Guide

This installation guide provides information to help you deploy the HP StorageWorks NAS 2000s.

“About this Guide” topics include:

- [Overview](#), page 5
- [Conventions](#), page 6
- [Rack Stability](#), page 9
- [Getting Help](#), page 9

Overview

This section covers the following topics:

- [Intended Audience](#)
- [Prerequisites](#)
- [Related Documentation](#)

Intended Audience

This book is intended for use by technical professionals who are experienced with the following:

- Microsoft® administrative procedures
- file-sharing protocols

Prerequisites

Before you set up the NAS 2000s, HP recommends that you obtain supplemental documentation relative to the items listed above in the section titled “Intended Audience.”

Related Documentation

In addition to this guide, HP provides corresponding information:

- *HP StorageWorks NAS 2000s Administration Guide*
- HP StorageWorks NAS 2000s Quick Reference and Rack Installation Poster
- *HP StorageWorks NAS 2000s Release Notes*

Conventions

Conventions consist of the following:

- [Document Conventions](#)
- [Text Symbols](#)
- [Equipment Symbols](#)

Document Conventions

The document conventions included in [Table 1](#) apply in most cases.

Table 1: Document Conventions

Element	Convention
Cross-reference links	Figure 1
Key and field names, menu items, buttons, and dialog box titles	Bold
File names, application names, and text emphasis	<i>Italics</i>
User input, command and directory names, and system responses (output and messages)	Monospace font COMMAND NAMES are uppercase monospace font unless they are case sensitive
Variables	<monospace, italic font>
Website addresses	Underlined sans serif font text: http://www.hp.com

Text Symbols

The following symbols may be found in the text of this guide. They have the following meanings:



WARNING: Text set off in this manner indicates that failure to follow directions in the warning could result in bodily harm or death.



Caution: Text set off in this manner indicates that failure to follow directions could result in damage to equipment or data.

Note: Text set off in this manner presents commentary, sidelights, or interesting points of information.

Equipment Symbols

The following equipment symbols may be found on hardware for which this guide pertains. They have the following meanings:



Any enclosed surface or area of the equipment marked with these symbols indicates the presence of electrical shock hazards. Enclosed area contains no operator serviceable parts.

WARNING: To reduce the risk of personal injury from electrical shock hazards, do not open this enclosure.



Any RJ-45 receptacle marked with these symbols indicates a network interface connection.

WARNING: To reduce the risk of electrical shock, fire, or damage to the equipment, do not plug telephone or telecommunications connectors into this receptacle.



Any surface or area of the equipment marked with these symbols indicates the presence of a hot surface or hot component. Contact with this surface could result in injury.

WARNING: To reduce the risk of personal injury from a hot component, allow the surface to cool before touching.



Power supplies or systems marked with these symbols indicate the presence of multiple sources of power.

WARNING: To reduce the risk of personal injury from electrical shock, remove all power cords to completely disconnect power from the power supplies and systems.



Any product or assembly marked with these symbols indicates that the component exceeds the recommended weight for one individual to handle safely.

WARNING: To reduce the risk of personal injury or damage to the equipment, observe local occupational health and safety requirements and guidelines for manually handling material.

Rack Stability

Rack stability protects personnel and equipment.



WARNING: To reduce the risk of personal injury or damage to the equipment, be sure that:

- The leveling jacks are extended to the floor.
 - The full weight of the rack rests on the leveling jacks.
 - In single rack installations, the stabilizing feet are attached to the rack.
 - In multiple rack installations, the racks are coupled.
 - Only one rack component is extended at any time. A rack may become unstable if more than one rack component is extended for any reason.
-

Getting Help

If you still have a question after reading this guide, contact an HP authorized service provider or access our website:

<http://www.hp.com>.

HP Technical Support

Telephone numbers for worldwide technical support are listed on the following HP website: <http://www.hp.com/support/>. From this website, select the country of origin.

Note: For continuous quality improvement, calls may be recorded or monitored.

Be sure to have the following information available before calling:

- Technical support registration number (if applicable)
- Product serial numbers
- Product model names and numbers
- Applicable error messages
- Operating system type and revision level
- Detailed, specific questions

HP Storage Website

The HP website has the latest information on this product, as well as the latest drivers. Access storage at: <http://www.hp.com/country/us/eng/prodserv/storage.html>. From this website, select the appropriate product or solution.

HP Authorized Reseller

For the name of your nearest HP authorized reseller:

- In the United States, call 1-800-345-1518
- In Canada, call 1-800-263-5868
- Elsewhere, see the HP website for locations and telephone numbers: <http://www.hp.com>.

Product Overview

1

This chapter provides product definition, product information, and a hardware and software overview of the HP StorageWorks NAS 2000s. Additional information also found in the chapter includes optional features, rear panel connector location, and third-party support.

Product Definition and Information

The NAS 2000s is a business class NAS solution that provides reliable performance, manageability, and fault tolerance.

Server Hardware Features

The following features are included in the NAS 2000s internal SCSI model:

- One Intel XEON 3.06 GHz with 1 MB L3 cache and 512 K L2 cache
- 1 GB (2 X 512 MB SIMMs)
- Smart Array 5i+ Embedded SCSI-3 controller with Battery-Backed Write Cache (BBWC) Enabler
- Redundant 400-watt hot plug power supplies
- 64-bit PCI-X I/O technology:
 - Two hot-pluggable 100-MHz slots
 - One 133-MHz slot
- Integrated Lights-Out (iLO)
- Two mirrored 36.4-GB, 10,000 rpm U320 universal drives for OS

- Four 146.8-GB, 10,000 rpm U320 universal drives for user data (allows for RAID 5)
- Two NC7781 10/100/1000 NICs (embedded)
- Redundant fans

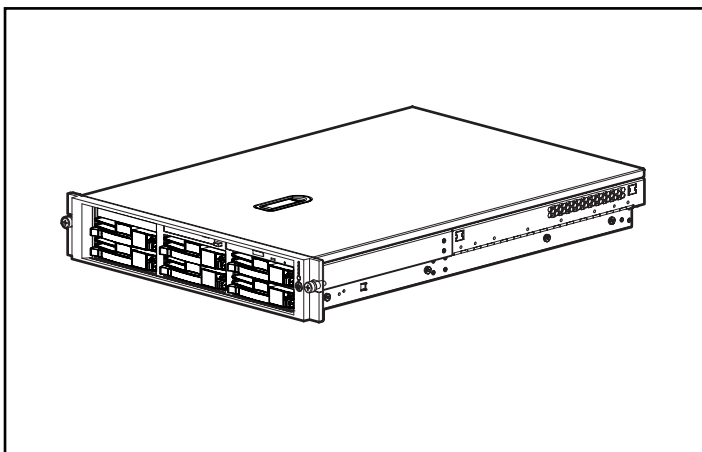


Figure 1: NAS 2000s internal SCSI model

The following features are included in the NAS 2000s external SCSI model:

- One Intel XEON 3.06 GHz with 1 MB L3 cache and 512 K L2 cache
- 1 GB (2 X 512 MB SIMM)
- Smart Array 5i+ Embedded SCSI-3 controller with Battery-Backed Write Cache (BBWC) Enabler
- Redundant 400-watt hot plug power supplies (server only)
- 64-bit PCI-X I/O technology:
 - Two hot-pluggable 100-MHz slots
 - One 133-MHz slot with Smart Array 6404 controller installed

- Integrated Lights-Out (iLO)
- Two mirrored 36-GB, 10,000 rpm U320 universal drives for OS
- Two NC7781 10/100/1000 NICs (embedded)
- Redundant fans
- Four 146-GB, 10,000 rpm U320 universal drives for user data (allows for RAID 5)
- 4414 Storage Cabinet with redundant power supplies and fans

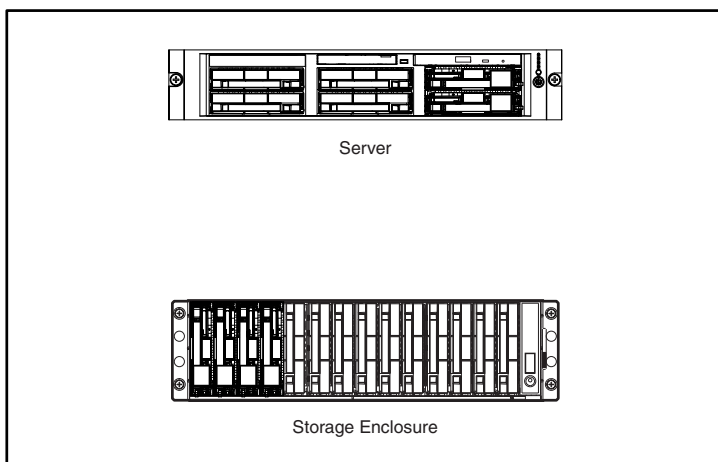


Figure 2: NAS 2000s external SCSI model

Optional Features

The following features are optional for the NAS 2000s server:

- SA5300, SA6404 (support for multiple adapters)
- HP StorageWorks Enclosure 4314, 4414, 4354, and 4454
- Standard HP ProLiant NIC Suite including NC7770
- Alacritech NICs
- LP952 and/or LP8000 for tape support only
- Tape drive in bay 5

Rear Panel Connectors

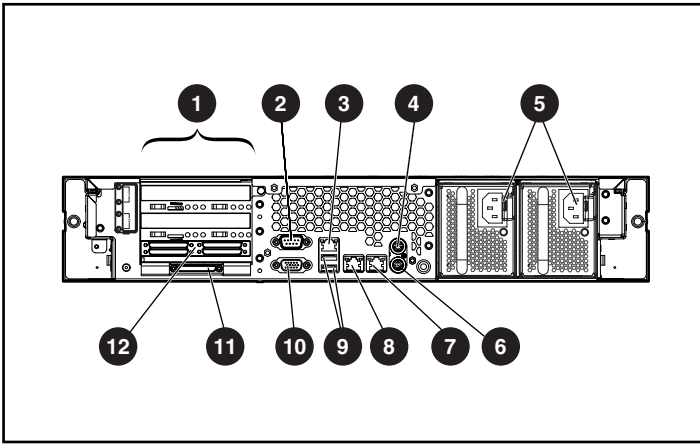


Figure 3: Rear panel connectors

Table 2: Rear Panel Connectors

Item	Description
❶	PCI expansion slots
❷	Serial connector (teal)
❸	Integrated Lights-Out (iLO) Eth)
❹	Mouse connector (PS/2) (green)
❺	Power connectors
❻	Keyboard connector (PS/2) (purple)
❼	RJ-45 connector for NIC 1
❽	RJ-45 connector for NIC 2
❾	USB connectors (2) (black)
❿	Video connector (blue)
⓫	VHDCI SCSI connector (SCSI port 1)
⓬	Smart Array 6404 controller*

Note: * Included with NAS 2000s external SCSI only.

Software Features

HP-supplied software included and supported by the NAS 2000s includes:

- Quick Restore DVD containing the NAS OS image
- WebUI based on NAS 3.0
- Array Configuration Utility (ACU) XE Support
- HP Insight Manager (CIM) WBEM Win32
 - HP Insight Manager base console
 - XE
 - Survey
- HP System Management Interface
- Microsoft Windows® 2003 drivers, including Array Controller driver and HBA drivers
- Insight Management agents
- UPS monitoring agent with automated shutdown via serial port – preconfigured at factory no user interface
 - HP UPS
 - APC UPS
- Field diagnostics support via Integrated Lights-Out (iLO)
- SmartStart 6.4 software drivers and Insight Manager 6.4
- NIC teaming drivers
- Support for Web Based Configuration Utility
- Web based configuration utility for quick configuration
- RapidLaunch support for locating NAS devices
- Rapid Start-Up Utility for quick configuration

Third-party supplied software included and supported by the NAS 2000s includes:

- Microsoft-supplied software components
 - Windows 2003 “Embedded License”
 - Microsoft Services for Network File System (NFS)
 - Microsoft Services for UNIX 3.0 Retail separate CD for user name mapping support in a domain only
 - Microsoft Services for Netware 5.02 separate CD
 - SAK 3.0
 - Services for Macintosh
 - Terminal services
 - Print services
 - Console for desktop services
- SW Other Third Party Components
 - Tivoli Netview agents
 - BMC Patrol agents

Configuration Setup

2

This chapter provides information about preinitialization, collecting information, and configuring the HP StorageWorks NAS 2000s using the online method. Details include three methods of system configuration and an overview of storage configuration.

Preinitialization

Before beginning the installation process, verify that the hardware installation is complete. Verify that the NAS 2000s is completely installed in the rack and that all cables and cords are connected.

Note: If you need assistance with rack installation or hardware connections, refer to the quick reference and rack installation guide included in the shipping carton.

Collect Information for Configuration

Choose a host name and collect general information before initializing the NAS 2000s.

Configuration Information

Collect the general information required to initialize the NAS device for both dynamic host configuration protocols (DHCP) and non-DHCP configurations. You will be asked for this information during configuration, as shown in [Table 3](#). Become familiar with this information before attempting to configure the NAS device.

Table 3: Configuration Information

Part A: To Be completed for DHCP and non-DHCP configurations			
Server Host Name:			
Integrated Lights-Out Name:	Integrated Lights-Out Default User:	Integrated Lights-Out Password:	
Note: If NIC teaming is to be implemented, determine which ports will be teamed. Configure these Ethernet ports for DHCP protocol. For more information, refer to the Ethernet teaming features and procedures section of administrative procedures in the administration guide.			
Part B: To be completed for non-DHCP configurations only			
DNS Servers	IP Address		
1			
2			
3			
NAS NIC Port*	IP Address	Subnet Mask	Gateway Address
NIC 1			
NIC 2			
Integrated Lights-Out Eth port			
* The default NAS 2000s has two Ethernet ports available for network connectivity. Disable ports that will not be used. Each Ethernet port must be configured with a separate subnet.			
Part C: SNMP Information (optional)			
Trap Destination (IP Address) Manager Client:			
Management Traps Community String:			
System Management Community String:			

WebUI Configuration

The WebUI is designed to be a graphical, easy-to-use application that gathers the necessary information for configuration. The WebUI may be accessed through three methods:

- RapidLaunch method
- Remote Browser method (using hostname)
- Direct Attach method

Note: You can configure this system through the WebUI or manually through Remote Desktop or Windows Server 2003 Desktop.

Note: The NAS 2000s is designed to be deployed without a monitor, keyboard, and mouse. These ports are available and supported by the NAS device, if used.

RapidLaunch Method

The NAS 2000s includes a RapidLaunch CD that can run on any Windows-based PC using Internet Explorer 5.5 (or later).

Requirements

The following items are required to run the WebUI configuration application:

- Windows-based PC loaded with Internet Explorer 5.5 (or later) on the same network segment as the NAS 2000s
- RapidLaunch CD

Procedure

To initialize the NAS 2000s:



Caution: Do not power up the NAS device until steps 1 through 5 are completed.

1. Connect the Ethernet cables to the respective network ports of the NAS 2000s and the corresponding network segments. See [Figure 3](#) and [Table 2](#) on page 14 for the locations of the network ports on the NAS 2000s.

Note: Connect a loopback cable to any of the NAS 2000s Ethernet ports that are not configured for use.

2. Verify that the Windows-based PC client is connected to the same subnet as the NAS 2000s.
3. Power on the PC and wait until the operating system has completely loaded.
4. Insert the RapidLaunch CD into the CD-ROM drive of the PC.
5. The RapidLaunch CD should run automatically. If the program does not start up automatically, the program may be run manually. Click **Start**, select **Run** on the Windows taskbar, and then type the following:

```
{CD ROM drive}:\setup.exe
```

Wait for the interface to start.

6. Go to the NAS device and power it on. It will be several minutes before the NAS device is accessible on the network.
7. Return to the PC. Select **StorageWorks NAS** from the **Show** drop-down list to have RapidLaunch list all NAS devices on the network, as shown in [Figure 4](#).

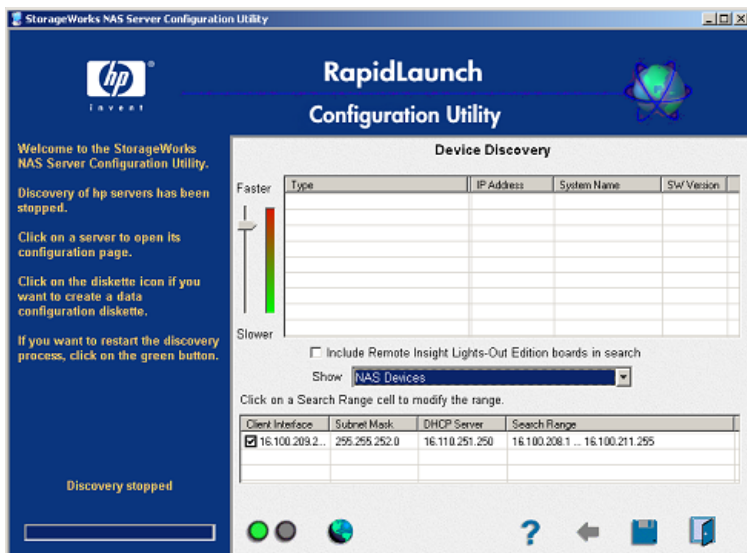


Figure 4: RapidLaunch search screen

8. All the NAS devices found on the network are displayed as shown in [Figure 5](#). It may take several minutes for the NAS device to be found on the network.

Note: The RapidLaunch utility will refresh periodically, looking for new devices on the network. Refresh the device list manually by selecting the **Refresh** button.

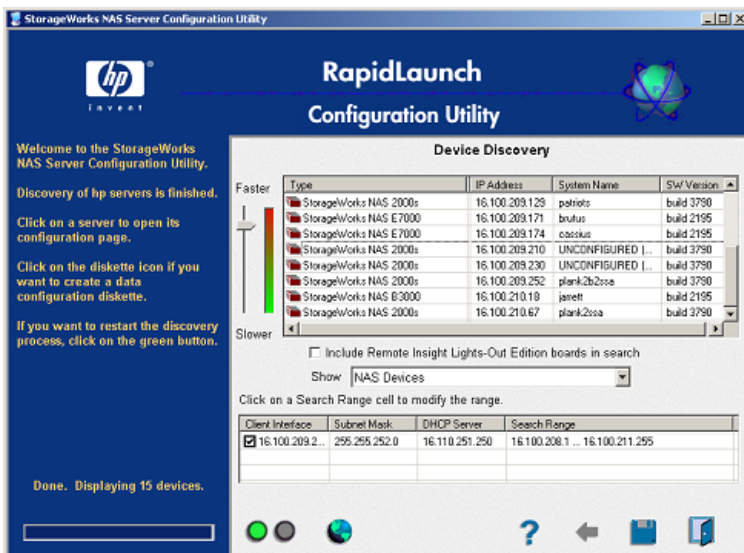


Figure 5: RapidLaunch device discovery screen

9. Select the unconfigured HP StorageWorks NAS 2000s device from the device list. If more than one displays, check the serial number in the *System Name* column by clicking the appropriate cell.
10. Click **Yes** in the **Security Alert** dialog to accept the security certificate.
11. Login to the WebUI. This launches the WebUI configuration application (Rapid Startup) on the target HP StorageWorks NAS device, as shown in [Figure 7](#).

Note: The default login for the WebUI is administrator and the password is hpinvent. The WebUI uses the same login as the local administrator's account or an account with administrative privileges.

12. Go to the “[Rapid Startup Wizard Configuration](#)” on page 27 to complete the setup procedures.

Remote Browser Method (Using Hostname)

The NAS 2000s ships by default with DHCP enabled on the network port. If the system is placed on a DHCP enabled network and the serial number of the device is known, it can be accessed through a client running Internet Explorer 5.5 (or later) on that network, using the 3202 port of the device. The serial number is located behind the front bezel of the NAS 2000s, as illustrated in Figure 6.

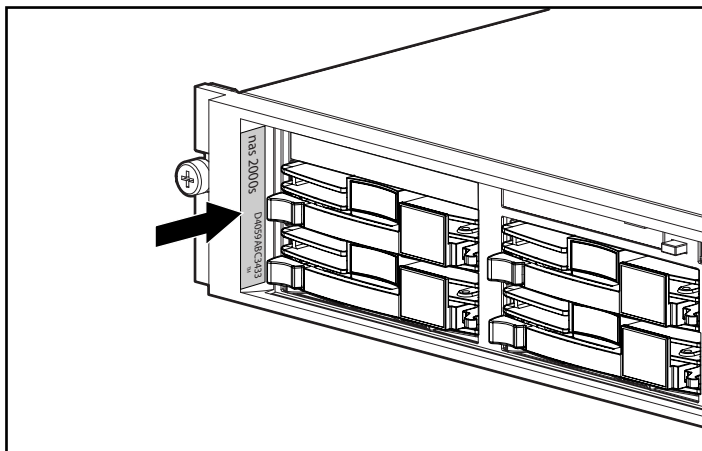


Figure 6: Serial number location

Requirements

The following items are required to run the WebUI configuration application:

- Windows-based PC loaded with Internet Explorer 5.5 (or later) on the same segment as the NAS 2000s
- DHCP-enabled network
- Serial number of the NAS 2000s

Procedure

To initialize the NAS 2000s:

1. Connect the Ethernet cables to the respective network ports of the NAS 2000s and the corresponding network segments. See [Figure 3](#) and [Table 2](#) on page 14 for the locations of the network ports on the NAS 2000s.
2. Go to the NAS device and power it on. It will be several minutes before the NAS device is accessible on the network.

Note: The NAS device will respond when the NAS operating system has started.

3. Open Internet Explorer on the PC. Enter `https://`, the serial number of the NAS 2000s followed by a hyphen (-), and then `:3202`. Press **Enter**.

Example: `https://D4059ABC3433-:3202`

Note: Substitute the server name for the serial number if a server name was previously set.

4. Click **Yes** in the **Security Alert** dialog to accept the security certificate.
5. Login to the WebUI. This launches the WebUI configuration application (Rapid Startup) on the target HP StorageWorks NAS device, as shown in [Figure 7](#).

Note: The default login for the WebUI is `administrator` and the password is `hpinvent`. The WebUI uses the same login as the local administrator's account or an account with administrative privileges.

6. Go to the next section "[Rapid Startup Wizard Configuration](#)," to complete the setup procedures.

Direct Attach Method

You can access the WebUI using a monitor, mouse, and keyboard directly attached to the NAS 2000s.

Procedure

To initialize the NAS 2000s:

1. Connect the Ethernet cables to the respective network ports of the NAS 2000s and the corresponding network segments.
2. Connect the monitor, mouse, and keyboard directly to the rear panel connectors of the NAS 2000s. See [Figure 3](#) and [Table 2](#) on page 14 for the locations of the connectors on the NAS 2000s.
3. Open Internet Explorer and click **Yes** in the **Security Alert** dialog to accept the security certificate. This launches the WebUI configuration application (Rapid Startup) on the target StorageWorks NAS device, as shown in [Figure 7](#). If the WebUI does not launch connect to the *LocalHost* and login to the WebUI.

Note: The default login for the WebUI is `administrator` and the password is `hpinvent`. The WebUI uses the same login as the local administrator's account or an account with administrative privileges.

4. Go to the “[Rapid Startup Wizard Configuration](#)” on page 27 to complete the setup procedures.

Rapid Startup Wizard Configuration

This utility will guide you through the configuration process.

Requirements

Ensure that an Internet Explorer window has been opened and the WebUI is at the Rapid Startup Wizard as shown in [Figure 7](#).

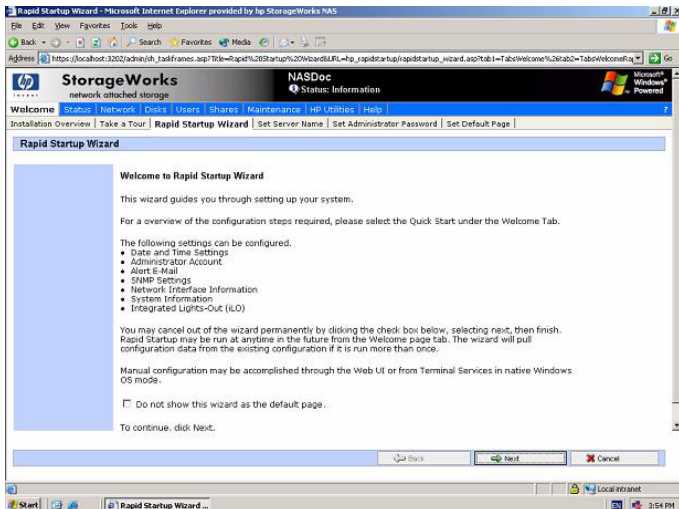


Figure 7: Rapid Startup wizard screen

Note: The Rapid Startup Wizard will be the default page unless you complete the wizard or select the checkbox next to the text that reads, "Do not show this wizard as the default page."

Procedure

Using the information from [Table 3](#), fill in the screens that follow.

1. Select **Next** to start the Rapid Startup Wizard (There may be a slight pause because the wizard is gathering information about the system and populating the fields.)
2. Configure the Date and Time Settings. Select **Next** to continue.
3. Configure the Administrator Account settings. Select **Next** to continue.
4. Configure the Alert Email settings. Select **Next** to continue.
5. Configure the SNMP Settings. Select **Next** to continue.
6. Configure the iLO System Information. Set the IP Address to DHCP and set the iLO hostname. Do not modify the administrator account name. Select **Next** to continue.
7. Configure the Network Interface Information for both NICs. Select **Next** to continue.
8. Configure the System Information. Select **Next** to continue.
9. Verify that your information is correct when the configuration review screen is displayed as shown in [Figure 8](#).

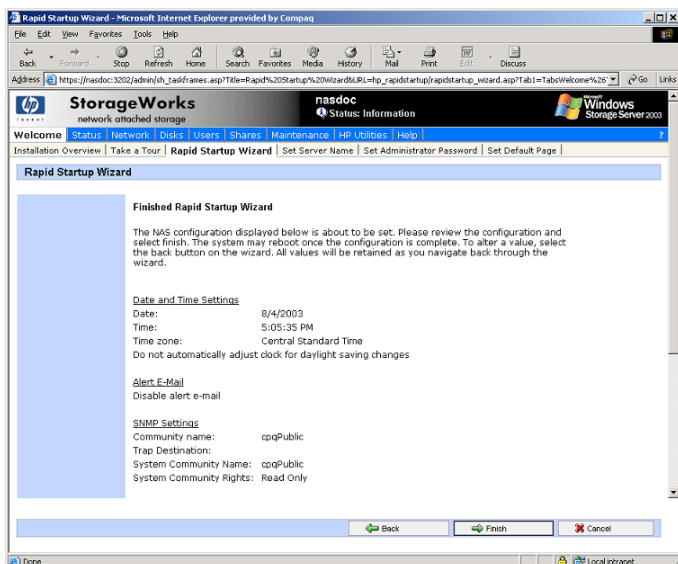


Figure 8: Rapid Startup configuration review screen

- Click **Finish** to exit Rapid Startup. If a reboot is required, Rapid Startup displays a message that a reboot is occurring and the configuration information will be set.

The browser will return to the status page. The refresh may take several minutes if the device was restarted.

Note: Once the Rapid Startup Wizard has been completed the Welcome page will become the default page.

Configure Storage

Configure storage by creating disk arrays, logical disks, and volumes. Physical disks can be arranged as RAID arrays for fault tolerance and enhanced performance, then segmented into logical disks of appropriate sizes for particular storage needs. These logical disks then become the volumes which appear as drives on the NAS server.

Creating Disk Arrays

To create disk arrays using the Array Configuration Utility (ACU) on the WebUI's Disks tab:

1. Click the **Disks** tab and select **Array Configuration Utility**.
2. Click **Yes** in the **Security Alert** dialog to accept the security certificate.
3. Log in as an administrator.

Note: The default login for the ACU is `administrator` and the password is `administrator`.

4. The ACU session will run in a new browser window.
5. Select the proper array controller in the left pane of the interface. Some NAS systems are equipped with separate array controllers for internal and external storage.

Note: Consult the help available in ACU for details on creating arrays, if necessary.

6. Select **Create Array** from the task list on the right panel.
7. Select the physical drives on which you want to create an array and click **OK**.

Note: Do not modify Array A off of the Smart Array 5i controller in the embedded slot; it contains the NAS operating system.

Creating Logical Disks

Continue using the ACU to create logical disks from the array space:

1. Select the array previously created.
2. Select **Create Logical Drive** from the right pane of the ACU interface.
3. Complete the logical drive creation wizard to designate some or all of the array space as a logical disk.
4. Click **Save** and **OK** to continue
5. Exit the ACU.

Depending on how many physical disks are included in the array, several different types of logical disks are possible. Consult the ACU's help feature for extensive details on creating logical disk drives.

Verifying Logical Disks

To verify that the NAS System recognizes the newly created logical disks:

1. Click the **Disks** tab and select **Disks**.
2. Select **Rescan** in the *Task* section to make the system scan for newly created logical disks.
3. Click **Back** to return to the **Manage Disks**.
4. Verify that disks matching the newly created sizes are displayed.

Creating a Volume

To create a Volume on the newly created logical disk:

1. Click the **Disks** tab and select **Volumes**.
2. Select the **Manage...** in the *Task* section.
3. Select **Create New** on the **Manage Volumes** page.
4. Log in to the Remote Desktop session as an administrator.
5. In the Disk Management interface, select one of the disk items representing the logical disk previously created with the ACU.
6. Complete the Initialize and Convert Disk Wizard.
7. Select the initialize disk and right-click in the unallocated space.
8. Select **New Partition** from the menu.
9. Use the New Partition Wizard to create a new volume, format a filesystem, and mount the volume on a drive letter or subdirectory of another mounted volume.

Note: For detailed information on creating volumes such as the types of volumes available, and the advantages of basic and dynamic disks, see the help feature in the Disks Management interface.

Creating File Shares

Once the storage space is set up, file shares are created by selecting an entire volume or a particular folder on a volume and designating that space as a network volume. That space is then available to groups of client computers on the network. The client computers access this space through a variety of file sharing protocols using the disk space to store their files and folders.

1. Click the **Shares** tab and select **Shares**.
2. Click **Folders** to create a new folder on the previously created volumes, or use an existing folder.
 - a. Select a volume and click **Manage Folders > New...**
 - b. Type the *folder name* and click **OK**.
3. Click **Shares** to create a file share by designating a network share name and folder location.
 - a. Click **New** and type a *name* and a *path*.

Note: Check **Create Folder** if the directory does not exist.

- b. Set client types to designate the types of client computers that should be allowed access to the share.
 - c. Click the appropriate Client Sharing from the General list to set user and group permissions on the share.

Basic Setup Complete

This completes the basic configuration of the HP StorageWorks NAS system, however, some computing environments may require additional settings and configuration as noted below.

Completing the System Configuration

Most of these tasks can be completed using the HP StorageWorks NAS WebUI. All procedures for the configuration tasks may be found in the *HP StorageWorks NAS 2000s Administration Guide*.

- Configure shadow copies for creating point-in-time snapshots of data volumes.
- Configure data replication software via Microsoft File Replication Services.
- Place the NAS system in a domain (highly recommended).
- Enable and establish space usage quotas.
- Configure DFS (Distributed File System) or publish the NAS system's shares into an already existing DFS structure.
- Enable additional protocols and create the associated file shares.
- Adjust logging for system, application, and security events.
- Install HP network (NIC) teaming.
- Install additional 3rd party software, such as backup, anti-virus, or monitoring agents.
- Configure UNIX user and group mappings.
- Install the Integrated Lights Out (iLO) license key (included with the NAS system's country kit) via the iLO port and a web browser.
- Create and verify a full NAS system backup before putting the system into production.

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